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NiceZyme View of ENZYME: EC 1.1.1.44

Official Name	
Phosphogluconate dehydrogenase (decarboxylating).	
Alternative Name(s)	
6-phosphogluconic carboxylase.	
6-phosphogluconic dehydrogenase.	
6PGD.	
Phosphogluconic acid dehydrogenase.	
Reaction catalysed	
6-phospho-D-gluconate + NADP(+) <=> D-ribulose 5-phosphate + CO(2) + NADPH	
Human Genetic Disease(s)	
6-phosphogluconate dehydrogenase deficiency	MIM:172200
Cross-references	
Biochemical Pathways; map number(s)	C5
PROSITE	PDOC00390
BRENDA	1.1.1.44
PUMA2	1.1.1.44
PRIAM enzyme-specific profiles	1.1.1.44
Kyoto University LIGAND chemical database	1.1.1.44
IUBMB Enzyme Nomenclature	1.1.1.44
IntEnz	1.1.1.44
MEDLINE	Find literature relating to 1.1.1.44
MetaCyc	1.1.1.44

UniProtKB/Swiss-Prot	P38720, 6PGD1_YEAST;	P80859, 6PGD2_BACSU;	P53319, 6PGD2_YEAST;
	P37754, 6PGD9_ECOLI;	P70718, 6PGD_ACTAC;	P52207, 6PGD_BACLI;
	P12013, 6PGD_BACSU;	P57208, 6PGD_BUCAI;	Q9ZHD9, 6PGD_BUCAP;
	Q89AX5, 6PGD_BUCBP;	Q17761, 6PGD_CAEEL;	O13287, 6PGD_CANAL;
	P41570, 6PGD_CERCA;	Q9PKX7, 6PGD_CHLMU;	Q9Z8I3, 6PGD_CHLPN;
	O84066, 6PGD_CHLTR;	P41581, 6PGD_CITAM;	P41582, 6PGD_CITDI;
	P41583, 6PGD_CITFR;	O60037, 6PGD_CUNEL;	P41572, 6PGD_DROME;
	P41573, 6PGD_DROSI;	P00350, 6PGD_ECOLI;	P41574, 6PGD_ESCVU;
	Q7VMX4, 6PGD_HAEDU;	P43774, 6PGD_HAEIN;	P52209, 6PGD_HUMAN;
	P41575, 6PGD_KLEPL;	P41576, 6PGD_KLEPN;	P41577, 6PGD_KLETE;
	Q9CHU6, 6PGD_LACLA;	P96789, 6PGD_LACLC;	Q9DCD0, 6PGD_MOUSE;
	P14332, 6PGD_PIG;	P14062, 6PGD_SALTY;	P78812, 6PGD_SCHPO;
	P00349, 6PGD_SHEEP;	P41578, 6PGD_SHIBO;	P41579, 6PGD_SHIDY;
	P37756, 6PGD_SHIFL;	P41580, 6PGD_SHISO;	Q5HFR2, 6PGD_STAAC;
	Q931R3, 6PGD_STAAM;	P63334, 6PGD_STAAN;	Q6GGI7, 6PGD_STAAR;
	Q6G954, 6PGD_STAAS;	P63335, 6PGD_STAAW;	Q5HP42, 6PGD_STAEQ;
	Q8CP47, 6PGD_STAES;	P21577, 6PGD_SYNP7;	P52208, 6PGD_SYNY3;
	O83351, 6PGD_TREPA;	P31072, 6PGD_TRYBB;	

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All UniProtKB/Swiss-Prot entries referenced in this entry, with possibility to download in different formats, align etc.

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 1.1.1.-

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 1.1.-.-

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 1.-.-.-



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		<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L8	L7 and pox\$2	16
<input type="checkbox"/>	L7	L1 and (Duncan or McCormack or Stapleton or Burke or Mockel).in.	53
<input type="checkbox"/>	L6	L5 same (glutamicu\$4 or bacter\$4 or brevibact\$6 or corynefor\$4 or corynebacte\$4)	18
<input type="checkbox"/>	L5	l1 same (pox\$2 or (pyruvat\$4 same oxidas\$4))	82
<input type="checkbox"/>	L4	L3 and (glutamicu\$4 or bacter\$4 or brevibact\$6 or corynefor\$4 or corynebacte\$4)	251
<input type="checkbox"/>	L3	L2 and lysin\$4	256
<input type="checkbox"/>	L2	L1 and (pox\$2 or (pyruvat\$4 same oxidas\$4))	346
<input type="checkbox"/>	L1	gnd\$2 or (phosphogluc\$6 same dehydrogenas\$4)	39522

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